Table J1b. - Physical Properties of the Soils

Nicholas County, West Virginia

Entries under "Erosion Factors—T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion		Wind Erodibility	Wind Erodibility
and Soil Name	In	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
BuB:														
Buchanan	0-7 7-20 20-65	25-50 	30-48 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.14-0.20 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 	.32 .24 .17	.32 .28 .24	3		56
BuC:														
Buchanan	0-7 7-20 20-65	25-50 	30-48 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.14-0.20 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 	.32 .24 .17	.32 .28 .24	3		56
BuD:														
Buchanan	0-7 7-20 20-65	25-50 	30-48 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.14-0.20 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 	.32 .24 .17	.32 .28 .24	3		56
BvC:														
Buchanan	0-7 7-20 20-65	55-80 	5-45 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.12-0.18 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	 	.24 .24 .17	.32 .28 .24	3		
BvE:														
Buchanan	0-7 7-20 20-65	25-50 	30-48 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.11-0.16 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	 	.24 .24 .17	.32 .28 .24	3		
CeF:														
Cedarcreek	0-2 2-65	25-50 	30-48 	18-27 18-27	1.35-1.65 1.35-1.65	0.6-6 0.6-6	0.07-0.16 0.07-0.16	0.0-2.9 0.0-2.9	0.5 	.32 .32	.43 .43	5	8	0

ChB:

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability	Available Water	Linear Extensibility	Organic Matter		Frosion actors		Wind	Wind
and Soil Name	În	Pct	Pct	pct	g/cc	(Ksat) In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Erodibility Group	Erodibility Index
ChB:														
Chavies	0-11 11-50 50-65	55-80 	5-45 	7-18 7-18 7-18	1.20-1.40 1.20-1.40 1.30-1.50	2-6 2-6 2-6	0.11-0.18 0.11-0.20 0.08-0.18	0.0-2.9 0.0-2.9 0.0-2.9	0.5-4.0 	.24 .24 .24	.24 .24 .24	4	3	86
CoB:														
Cotaco	0-7 7-65	10-40 	50-78 	7-27 18-35	1.20-1.40 1.20-1.50	0.6-6 0.6-2	0.12-0.20 0.07-0.15	0.0-2.9 0.0-2.9	0.5-4.0	.37 .28	.43 .32	3	5	56
Purdy														
Cr:														
Craigsville	0-7 7-25	55-80 	5-45 	5-15 5-15	1.20-1.40 1.30-1.60	2-20 2-20	0.07-0.15 0.06-0.15	0.0-2.9 0.0-2.9	1.0-5.0	.17 .17	.28 .28	3		86
	25-65			5-10	1.35-1.55	6-20	0.04-0.09	0.0-2.9		.17	.28			
DeC:	0.0	FF 00	E 45	40.00	1 00 1 50	0.00	0.00.0.40		0040	4=	0.4	•		
Dekalb	0-6 6-20	55-80 	5-45 	10-20 7-18	1.20-1.50 1.20-1.50	6-20 6-20	0.08-0.12 0.06-0.12	0.0-2.9 0.0-2.9	2.0-4.0	.17 .17	.24 .24	2		
	20-24			5-15	1.20-1.50	6-20	0.05-0.10	0.0-2.9		.17	.24			
	24-28					0.2-0.6								
DeE:														
Dekalb	0-6 6-20	55-80	5-45	10-20	1.20-1.50 1.20-1.50	6-20	0.08-0.12 0.06-0.12	0.0-2.9 0.0-2.9	2.0-4.0	.17 .17	.24	2		
	6-20 20-24			7-18 5-15	1.20-1.50 1.20-1.50	6-20 6-20	0.06-0.12	0.0-2.9 0.0-2.9		.17 .17	.24 .24			
	24-28					0.2-0.6								
DeF:														
Dekalb	0-6	55-80	5-45	10-20	1.20-1.50	6-20	0.08-0.12	0.0-2.9	2.0-4.0	.17	.24	2		
	6-20 20-24			7-18 5-15	1.20-1.50 1.20-1.50	6-20 6-20	0.06-0.12 0.05-0.10	0.0-2.9 0.0-2.9		.17 .17	.24 .24			
	24-28					0.2-0.6								

Nicholas County, West Virginia

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion		Wind Erodibility	Wind Erodibility
and Soil Name	In	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
DRF:														
Dekalb	0-6 6-20 20-24 24-28	55-80 	5-45 	10-20 7-18 5-15 	1.20-1.50 1.20-1.50 1.20-1.50	6-20 6-20 6-20 0.2-0.6	0.08-0.12 0.06-0.12 0.05-0.10	0.0-2.9 0.0-2.9 0.0-2.9 	2.0-4.0 	.17 .17 .17	.24 .24 .24	2		
Buchanan	0-7 7-20 20-65	25-50 	30-48 	10-27 18-30 18-35	1.20-1.40 1.30-1.60 1.40-1.70	0.6-2 0.6-2 0.06-0.2	0.14-0.20 0.10-0.16 0.06-0.10	0.0-2.9 0.0-2.9 0.0-2.9	1.0-3.0 	.32 .24 .17	.32 .28 .24			
Other Soils														
Rock Outcrop	0-60													0
Ed:														
Elkins	0-8 8-36 36-65	5-40 	55-78 	18-30 18-35 7-27	1.20-1.50 1.30-1.60 1.30-1.60	0.6-2 0.06-0.2 0.2-2	0.18-0.24 0.12-0.16 0.10-0.14	0.0-2.9 3.0-5.9 0.0-2.9	1.0-5.0 	.37 .37 .32	.37 .37 .32	5		
Ep: Elkins	0-8 8-36 36-65	5-40 	55-78 	18-30 18-35 7-27	1.20-1.50 1.30-1.60 1.30-1.60	0.6-2 0.06-0.2 0.2-2	0.18-0.24 0.12-0.16 0.10-0.14	0.0-2.9 3.0-5.9 0.0-2.9	5.0-10 	.37 .37 .32	.37 .37 .32	5		
FeB:														
Fenwick	0-8 8-25 25-38 38-42	10-40 	50-78 	10-27 18-35 18-30 	1.20-1.40 1.20-1.50 1.40-1.70 	0.6-2 0.6-2 0.2-0.6 0.2-0.6	0.12-0.16 0.10-0.16 0.08-0.14	0.0-2.9 0.0-2.9 0.0-2.9 	1.0-4.0 	.32 .24 .24	.32 .24 .28	3		

FeC:

Nicholas County, West Virginia

Map Symbol and Soil Name	Depth In	Sand Pct	Silt Pct	Clay pct	Moist Bulk Density g/cc	Permeability (Ksat) In/Hr	Available Water Capacity In/In	Linear Extensibility Pct	Organic Matter Pct		rosion actors Kf		Wind Erodibility Group	Wind Erodibility Index
FeC:														
Fenwick	0-8	10-40	50-78	10-27	1.20-1.40	0.6-2	0.12-0.16	0.0-2.9	1.0-4.0	.32	.32	3		
	8-25			18-35	1.20-1.50	0.6-2	0.10-0.16	0.0-2.9		.24	.24	_		
	25-38			18-30	1.40-1.70	0.2-0.6	0.08-0.14	0.0-2.9		.24	.28			
	38-42					0.2-0.6								
FvB:														
Fiveblock	0-4	55-80	5-45	5-18	1.35-1.65	2-20	0.05-0.12	0.0-2.9	0.5	.32	.43	5	8	0
	4-65			5-18	1.35-1.65	2-20	0.05-0.12	0.0-2.9		.32	.43			
FvF:														
Fiveblock	0-4	55-80	5-45	5-18	1.35-1.65	2-20	0.05-0.12	0.0-2.9	0.5	.32	.43	5	8	0
	4-65			5-18	1.35-1.65	2-20	0.05-0.12	0.0-2.9		.32	.43			
GIB:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
·	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
						0.0000-0.2								
GIC:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
GID:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								

GIE:

Nicholas County, West Virginia

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion		Wind Erodibility	Wind Erodibility
and Soil Name	In	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
GIE:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34 34-38			15-35 	1.20-1.50 	0.6-2 0.0000-0.2	0.08-0.12	0.0-2.9		.24	.32			
	34-30					0.0000-0.2								
GIF:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34 34-38			15-35 	1.20-1.50 	0.6-2 0.0000-0.2	0.08-0.12	0.0-2.9		.24	.32			
	34-30					0.0000-0.2								
GnC:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.08-0.14	0.0-2.9		.24	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
GnE:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.08-0.14	0.0-2.9		.24	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
GnF:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.08-0.14	0.0-2.9		.24	.32	3		
•	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								

GoF:

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk	Permeability	Available Water	Linear Extensibility	Organic		rosion actors		Wind	Wind
and Soil Name	ln	Pct	Pct	pcť	Density g/cc	(Ksat) In/Hr	Capacity In/In	Pct	Matter Pct	Kw	Kf	Т	Erodibility Group	Erodibility Index
GoF:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.08-0.14	0.0-2.9		.24	.32	3		
•	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
Buchanan	0-7	25-50	30-48	10-27	1.20-1.40	0.6-2	0.11-0.16	0.0-2.9		.24	.32	3		
	7-20			18-30	1.30-1.60	0.6-2	0.10-0.16	0.0-2.9		.24	.28			
	20-65			18-35	1.40-1.70	0.06-0.2	0.06-0.10	0.0-2.9		.17	.24			
Other Soils														
GPF:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.08-0.14	0.0-2.9		.24	.32	3		
•	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
Pineville	0-4	10-40	50-78	15-25	1.00-1.30	0.6-2	0.12-0.18	0.0-2.9	0.5-5.0	.20	.24	4	8	0
	4-53			18-30	1.30-1.60	0.6-2	0.08-0.14	0.0-2.9		.15	.17			
	53-65			15-30	1.30-1.60	0.6-6	0.06-0.14	0.0-2.9		.15	.20			
Guyandotte	0-11	10-40	50-78	5-27	1.00-1.30	0.6-6	0.10-0.16	0.0-2.9	2.0-10	.10	.20	4	8	0
•	11-65			5-27	1.30-1.60	0.6-6	0.05-0.15	0.0-2.9		.17	.24			
Other Soils														
GuD:														
Gilpin	0-3	10-40	50-78	15-27	1.20-1.40	0.6-2	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
	3-27			18-35	1.20-1.50	0.6-2	0.12-0.16	0.0-2.9		.24	.28			
	27-34			15-35	1.20-1.50	0.6-2	0.08-0.12	0.0-2.9		.24	.32			
	34-38					0.0000-0.2								
Other Soils														

Nicholas County, West Virginia

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion actors		Wind Erodibility	Wind Erodibility
and Soil Name	ĺn	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
GuD:														
Upshur	0-5 5-36 36-47 47-51	 	 	15-27 40-55 27-45 	1.20-1.40 1.30-1.60 1.30-1.60	0.6-2 0.06-0.2 0.06-0.2 0.0000-0.2	0.12-0.16 0.10-0.14 0.08-0.12	3.0-5.9 6.0-8.9 3.0-5.9	1.0-4.0 	.43 .32 .32 	.43 .32 .32 	3	6	48
GuE: Gilpin	0-3 3-27 27-34 34-38	10-40 	50-78 	15-27 18-35 15-35	1.20-1.40 1.20-1.50 1.20-1.50	0.6-2 0.6-2 0.6-2 0.0000-0.2	0.12-0.18 0.12-0.16 0.08-0.12	0.0-2.9 0.0-2.9 0.0-2.9	0.5-4.0 	.32 .24 .24	.32 .28 .32 	3		
Other Soils														
Upshur	0-5 5-36 36-47 47-51	 	 	15-27 40-55 27-45 	1.20-1.40 1.30-1.60 1.30-1.60	0.6-2 0.06-0.2 0.06-0.2 0.0000-0.2	0.12-0.16 0.10-0.14 0.08-0.12	3.0-5.9 6.0-8.9 3.0-5.9	1.0-4.0 	.43 .32 .32	.43 .32 .32	3	6	48
ltF: Itmann	0-4 4-65	55-80 		10-20 4-15	1.00-1.30 1.00-1.30	0.6-6 2-20	0.08-0.15 0.05-0.12	0.0-2.9 0.0-2.9	0.5	.32 .32	.37 .43	5	8	0
KaB: Kaymine	0-2 2-65	25-50 	5-45 	18-27 18-27	1.35-1.65 1.35-1.65	0.6-6 0.6-6	0.07-0.16 0.07-0.16	0.0-2.9 0.0-2.9	0.5	.32 .32	.43 .43	5	8	0
KaF: Kaymine	0-2 2-65	25-50 	5-45 	18-27 18-27	1.35-1.65 1.35-1.65	0.6-6 0.6-6	0.07-0.16 0.07-0.16	0.0-2.9 0.0-2.9	0.5	.32 .32	.43 .43	5	8	0

LIB:

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion actors		Wind Erodibility	Wind Erodibility
and Soil Name	In	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
LIB:														
Lily	0-10 10-18	25-50 	30-48 	7-27 18-35	1.20-1.40 1.25-1.35	0.6-6 2-6	0.13-0.18 0.12-0.18	0.0-2.9 0.0-2.9	0.5-4.0	.28	.37 .28	2		56
	18-28 28-32			20-35 	1.25-1.35 	2-6 0.2-0.6	0.08-0.17 	0.0-2.9 		.17 	.24			
LIC:	0-10	25-50	30-48	7-27	1.20-1.40	0.6-6	0.13-0.18	0.0-2.9	0.5-4.0	20	.37	2		56
Lily	10-18	25-50	30-46 	18-35	1.25-1.35	2-6	0.12-0.18	0.0-2.9	0.5-4.0	.28 .28	.28	2		50
	18-28 28-32			20-35 	1.25-1.35 	2-6 0.2-0.6	0.08-0.17 	0.0-2.9 		.17 	.24			
LID:														
Lily	0-10 10-18	25-50 	30-48 	7-27 18-35	1.20-1.40 1.25-1.35	0.6-6 2-6	0.13-0.18 0.12-0.18	0.0-2.9 0.0-2.9	0.5-4.0 	.28 .28	.37 .28	2		56
	18-28 28-32			20-35 	1.25-1.35 	2-6 0.2-0.6	0.08-0.17 	0.0-2.9 		.17 	.24			
LIE:														
Lily	0-10 10-25	25-50 	30-48 	7-27 18-35	1.20-1.40 1.25-1.35	0.6-6 2-6	0.13-0.18 0.12-0.18	0.0-2.9 0.0-2.9	0.5-4.0 	.28 .28	.37 .28	2		56
	25-28 			20-35	1.25-1.35 	2-6 0.2-0.6	0.08-0.17	0.0-2.9		.17 	.24			
MoB:														
Monongahela	0-11 11-29	10-40	50-78 	10-27 18-35	1.20-1.40 1.30-1.50	0.6-2 0.6-2	0.18-0.24 0.14-0.18	0.0-2.9 0.0-2.9	2.0-4.0	.43 .43	.43 .43	3	5	56
	29-65			18-35	1.30-1.60	0.06-0.6	0.08-0.12	0.0-2.9		.43	.49			
Pc:	0-7	55-80	5-45	5-15	1.20-1.40	2-6	0.10-0.16	0.0-2.9	1.0-4.0	.28	.28	5		86
Pope	7-32			5-18	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9		.28 .28	.28	ວ		OU
	32-65			5-20	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9		.28	.20			

Map Symbol	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water	Linear Extensibility	Organic Matter		rosion actors		Wind Erodibility	Wind Erodibility
and Soil Name	In	Pct	Pct	pct	g/cc	In/Hr	Capacity In/In	Pct	Pct	Kw	Kf	Т	Group	Index
Pc: Craigsville	0-7 7-25 25-65	55-80 	5-45 	5-15 5-15 5-10	1.20-1.40 1.30-1.60 1.35-1.55	2-20 2-20 6-20	0.07-0.15 0.06-0.15 0.04-0.09	0.0-2.9 0.0-2.9 0.0-2.9	1.0-5.0	.17 .17 .17	.28 .28 .28	3		86
Other Soils														
Elkins														
Pu: Purdy	0-12 12-40 40-65	10-40 	50-78 	18-35 35-50 35-50	1.30-1.50 1.30-1.60 1.30-1.60	0.2-0.6 0.06-0.2 0.06-0.2	0.18-0.24 0.12-0.18 0.10-0.16	3.0-5.9 3.0-5.9 3.0-5.9	2.0-4.0	.43 .32 .32	.43 .32 .32	3		
Ud: Udorthents														
W: Water														